

# INFRARED HEATER

## OWNERS MANUAL

Model Numbers: FH1500-WR; IFML



### NO VENTING REQUIRED

Power: 120V AC; 60 Hz; 8.3 Amps ~ 12.5 Amps

Power consumption: 1000 Watts ~ 1500 Watts



**WARNING!** Read and understand this entire owner's manual, including **all safety** information, before plugging in or using this product. Failure to do so could result in **fire, electric shock, serious personal injury, or death.**



**Only use this heater as described in this manual.** Any other use is **not recommended** by the manufacturer, and may cause **fire, electric shock, or other personal injury.**



**WARNING! INDOOR use only! NEVER use this heater outdoors!**



**CAUTION!** Keep this owner's manual for future reference. If you sell or give this product away, make sure this manual accompanies this product.

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# IMPORTANT SAFETY INSTRUCTIONS!



## WARNING



- **Read all instructions before using the heater!**
- **DO NOT USE OUTDOORS!**
- **DO NOT** run power cord under carpeting. **DO NOT** cover power cord with throw rugs, runners, or similar coverings. **DO NOT** route power cord under furniture or appliances. Arrange power cord away from traffic area, and where it will not be tripped over.
- **DO NOT** insert or allow foreign objects to enter any ventilation or exhaust opening, as this may cause electric shock or fire, or damage the heater.
- To prevent a possible fire, **DO NOT** block air intakes or exhaust in any manner. Doing so could cause a **fire**. **DO NOT** use on soft surfaces, like a bed, where openings may become blocked.
- A heater has **hot and arcing or sparking parts inside**. **DO NOT** use it in areas where gasoline, paint, or flammable liquids are used or stored.
- **Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.**
- **ALWAYS** plug heaters directly into a wall outlet/receptacle. **NEVER** use with an extension cord or relocatable power tap (outlet/power strip).
- **ALWAYS** keep **electric cords, home furnishings, drapes, clothing, papers, or other combustibles** at least **3 feet (0.9m)** away from the front of this heater, and away from the bottom, sides, and rear of this heater.
- **DO NOT** place the heater near a bed because objects such as pillows or blankets can fall off the bed and be ignited by the heater.
- **AVOID FIRE!** Regularly inspect all air vents to make sure they are free from dust, lint, or other blockage. **Unplug the unit** and clean with a **vacuum ONLY**. **DO NOT** rinse or get wet.



## WARNING



- Use **extreme caution** if using this heater **near children**, or where children may be present.
- **NEVER** leave this heater unattended. **ALWAYS** unplug this heater when not in use.
- This heater is **hot when in use**. **AVOID INJURY!** **DO NOT TOUCH hot surfaces, or attempt to move this heater while it is hot.**
- **ALWAYS** turn this heater off before unplugging it from the outlet.
- **NEVER modify this heater**. Doing so could result in personal injury or property damage.
- **Discontinue use** if this heater **malfunctions** or is **dropped or damaged in any manner**.
- **AVOID INJURY FROM TIPPING!** **NEVER** place **any objects on top** of this heater. This heater has wheels for mobility, and **any object placed on top may cause it to tip over**.
- **NEVER sit, stand, or climb** on this electric heater. Doing so **could cause the unit to tip over**, resulting in **serious personal injury or property damage**.



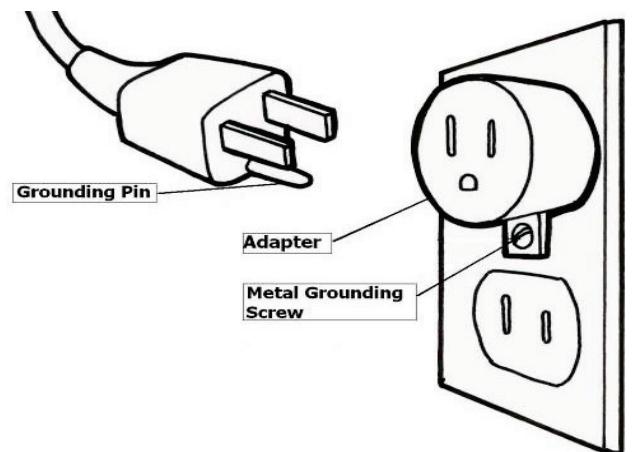
# WARNING



- **Risk of electric shock! DO NOT OPEN!** No user-serviceable parts inside!
- **ALWAYS disconnect** this unit from the **power supply** **before** performing any assembly or cleaning, or before relocating the electric heater.
- **ALWAYS** store this heater in a dry location. **NEVER** use the heater if it has become wet.
- **NEVER** use this heater in **bathrooms, laundry rooms**, or any other location where the heater could fall into a **bathtub or pool**, **become damp or come in contact with water**.
- **NEVER** hang this unit on a wall **directly below an electrical outlet**.
- **NEVER** operate this heater if the **power cord or plug** has become **damaged**, or if the **grounding pin is damaged or missing**.
- Place the heater near a wall outlet so an extension cord is not needed. If an extension cord is needed, the **gauge of the cord must be at least 14AWG**, and the **rating must be at least 1875 Watts**. **NEVER** use a **smaller gauge** cord with a **lower rating**. Doing so may result in **fire or electric shock**.
- **ONLY** use this heater on a **110~120 Volt 15 Amp grounded circuit**. **NEVER overload the circuit**. If this heater trips the circuit breaker, unplug all other appliances on the same circuit before the next use. Avoid plugging other appliances into the same circuit as this heater.
- **NEVER** plug this heater into an **outlet** that is **old, cracked**, or has any **loose wires or connections**. Plugging this heater into a **faulty outlet** could result in **electric arcing** within the outlet that could cause the **outlet to overheat or catch fire**.
- **ALWAYS** check your heater cord and plug connections with **each use!**
  - i) **MAKE SURE** the plug fits tight in the outlet! Faulty wall outlet connections or loose plugs can cause the outlet to overheat.
  - ii) **Heaters draw more current** than small appliances. **Overheating** may occur even if it has not occurred with the use of other appliances.
  - iii) During use **check frequently** to see if the **plug outlet or faceplate is HOT!**
  - iv) If the outlet or faceplate is **HOT**, **discontinue use immediately** and have a qualified electrician inspect and/or replace the faulty outlets.

- The cord supplied with the heater has a plug with two blades (live and neutral) and one round pin (ground). If a 3-slot receptacle is not available, an adapter **MUST** be used. The adapter **MUST** be **properly grounded** to the outlet box (see figure at right).

**SAVE THESE  
INSTRUCTIONS!**

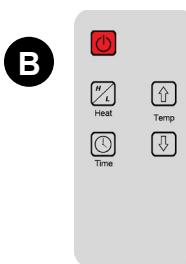


## PREPARATION

Remove the heater and remote control from the carton and place them on a clean, soft, dry surface. Make sure nothing is damaged. Dispose of packaging materials properly. Please recycle whenever possible.

## PARTS

Item	Description	Qty
A	Heater	1
B	Remote Control	1



## INTRODUCTION

Thank you for your purchase of this fine quality infrared heater. This heater will not replace your furnace. However, it will provide heat in a quiet and efficient manner directly to the area you are using. This is known as zone heating.

Move this heater to the desired location (see Important Safety Information warnings on pages 3 and 4 about which locations are not safe), turn it on, and enjoy. You can now turn down the thermostat and save on furnace use. Please see more information in the Heater Location section on Page 6 for details about proper placement.

Please remember that an infrared heater will take time to heat the room. The heat will be neither harsh nor dry. Instead, you will gradually feel the temperature rise in a natural way.

This heater includes a washable static filter which removes contaminates from the air as it circulates.



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# LOCATION

This Infrared Heater uses quartz infrared heating elements and heat exchangers to produce safe and economical heat. The quartz infrared heating elements transfer heat to the heat exchangers. In turn, the fan moves the warmth from the heat exchangers through the room.

To gain the most benefit from the infrared heater, we recommend the following:

1. Place the heater near an inside wall of the room. Face the front of the heater toward the center of the room, in the direction of one of the cooler outside walls of the house. This will direct the heat across the room, toward the outside walls, and result in more even heating throughout the room.
2. Limit the amount of airflow through the doors and windows of the room you are heating. Lower air flow into and out the room will increase the efficiency of the heater.
3. Very high or very low levels of humidity will affect the heating efficiency. For best results, the relative humidity of the room to be heated should be about 40%.
4. Well-insulated rooms that meet local codes will heat more evenly and efficiently. Poor insulation will result in greater heat loss, and will reduce the efficiency of the heater.
5. For safety, and improved efficiency, keep the area around the heater free from clutter. This will improve the airflow into and out of the heater.
6. Always keep the heater out of high-traffic areas. This will prevent accidents that could be caused by tripping over the cord, or the heater itself. Please refer to the **IMPORTANT SAFETY INSTRUCTIONS** on pages 3 and 4 for more safety information.

# OPERATION

## Infrared Technology Basics

1. Air enters the heater through the washable air filter at the rear of the unit.
2. Heat is transferred from the quartz infrared heating elements to the heat exchangers that surround them.
3. The fan moves the filtered air over the heat exchangers. As the air moves over the heat exchangers, heat is transferred to the air.
4. The heated filtered air circulates within the chamber and continues to increase in temperature.
5. Finally, the filtered warm air is directed out the vent at the front of the heater.
6. The result is an evenly-heated room that remains at a comfortable temperature.



**Read and understand** this entire owner's manual, including **all safety information**, before plugging this heater in. Failure to do so could result in **electric shock, fire, serious injury, or death**.

## Power

Plug the power cord into a 110~120 Volt 15-Amp grounded outlet (see **IMPORTANT SAFETY INSTRUCTIONS** on **Pages 3 and 4**). Make sure the outlet is in good condition and that the plug is not loose. **NEVER** exceed the maximum amperage for the circuit. **DO NOT** plug other appliances into the same circuit.

## Temperature Limiting Control

This heater is equipped with a Temperature Limiting Control. Should the heater reach an unsafe temperature, the heater will automatically turn OFF. To reset:

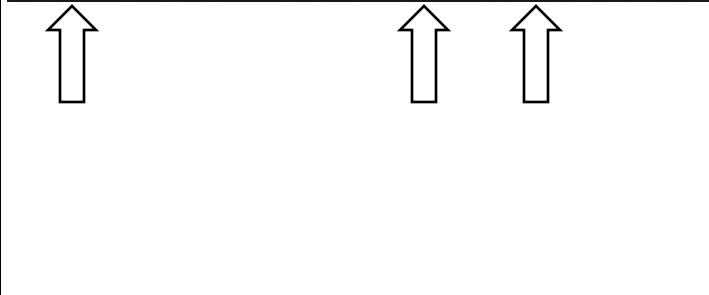
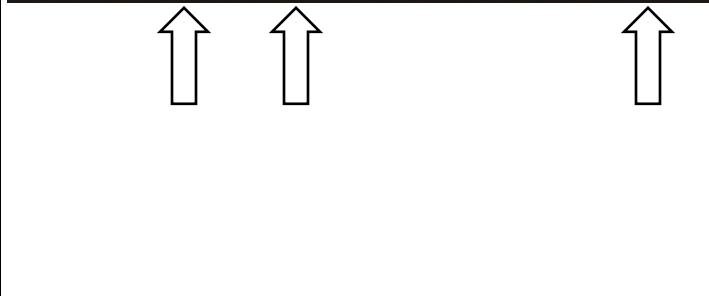
1. Unplug the power cord from the outlet.
2. Inspect the heater vents. If clogged with dust or lint, clean them with a vacuum.
3. Plug the power cord back into the outlet.
4. If it switches off again, **UNPLUG THE HEATER RIGHT AWAY!** Have the outlets, wiring, and breaker box inspected by a professional. Make necessary repairs before using the heater.

## Control Panel Location

The control panel is located on the front panel, below the hot air vent.



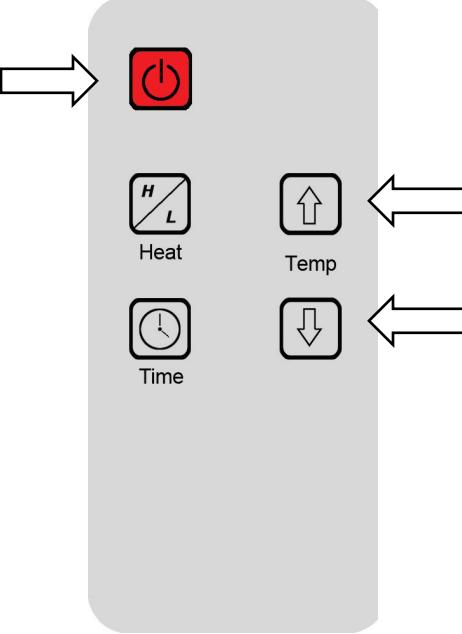
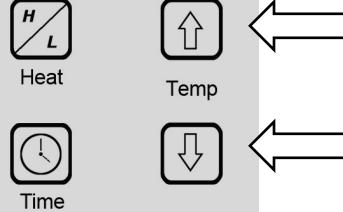
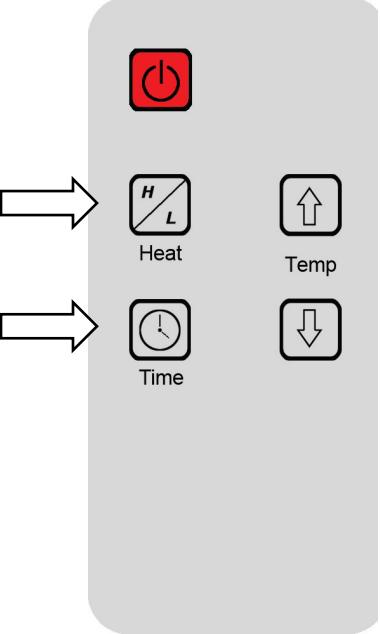
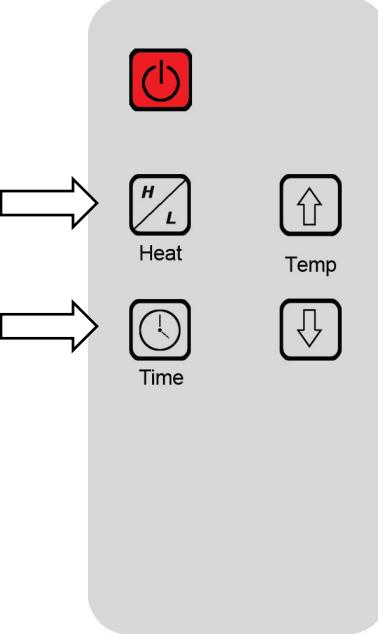
## Control Panel Operation

BUTTON	OPERATION / FUNCTION	CONTROL PANEL DIAGRAM
 Power	<b>Press once:</b> Power and indicator turn on. Functions are enabled. <b>Press again:</b> Power, indicators, and all functions turn off.	
 Temp	<b>Temp:</b> Press $\Delta$ or $\nabla$ to select the temperature setting. The heater will turn on and off automatically to maintain the set temperature.  To view the room temperature, press both buttons at the same time. The room temperature will be displayed for 5 seconds.  Afterward, the display will again show the set temperature.	
 Temp		
 Heat Setting	<b>Heat Level:</b> Press <b>H/L</b> to choose between High Heat (1500W) and Low Heat (1000W). The <b>H</b> or <b>L</b> indicator on the heater will display the setting.	
 Mode	<b>Mode:</b> Press $^{\circ}\text{C}/^{\circ}\text{F}$ to change the temperature display readout from $^{\circ}\text{C}$ to $^{\circ}\text{F}$ . The indicator will display the setting.	
 Time	<b>Time:</b> Press <b>Time</b> to display numbers from "0" to "8". Number "0" means the timer is not set, and the heater will run continuously.  Numbers "1" - "8" show the number of hours the heater will run before it automatically turns off.  Press to set the desired time.	

**Note:** The fan will continue to run after the thermostat temperature is reached, the timer runs out, or the heater is turned off - either by the control panel or the remote control. This is normal.

- A) Fan-only run time varies. In thermostat mode the fan runs for 8 minutes after desired room temp is reached, and 3 minutes after the timer runs out, or power is turned off. This makes use of residual heat collected inside the heater. It also cools the heater, which prolongs its lifetime.
- B) In thermostat mode, the heater may appear to run constantly if the room temperature drops below the thermostat setting during the fan-only period. In fact, it has only cycled off and on again.

## Remote Control Operation

BUTTON	OPERATION / FUNCTION	CONTROL PANEL DIAGRAM
	<p><b>Press once:</b> Power and indicator turn on. Functions are enabled.</p> <p><b>Press again:</b> Power, indicators, and all functions turn off.</p>	
 Temp	<p><b>Temp:</b> Press  or  to select the temperature setting.</p> <p>The heater will turn on and off automatically to maintain the set temperature.</p> <p>To view the room temperature, press both buttons at the same time. The room temperature will be displayed for 5 seconds.</p> <p>Afterward, the display will again show the set temperature.</p>	
 Heat	<p><b>Heat Level:</b> Press <b>H/L</b> to choose between High heat (1500W) and Low heat (1000W). The <b>H</b> or <b>L</b> indicator on the heater will display the setting.</p>	
 Time	<p><b>Time:</b> Press <b>Time</b> to display numbers from "0" to "8". When set to "0", the timer is not set, and the heater will run continuously.</p> <p>Numbers "1" - "8" show the number of hours the heater will run before it automatically turns off.</p> <p>Press to set the desired time.</p>	

## Remote Control Battery

- This remote control uses one **CR2032 Lithium-ion 3 volt button cell battery** (included).
- Instructions for battery installation are inside the Remote Control battery compartment.
- Always replace the battery in the remote control with the same type of battery.



**NEVER** dispose of batteries in **fire**. Failure to observe this precaution **may result in an explosion**. Dispose of batteries at your local hazardous material processing center.

# CARE AND MAINTENANCE

## Maintenance



**Risk of electric shock! DO NOT OPEN! No user-serviceable parts inside!**



**ALWAYS** turn the heater **OFF** and **unplug the power cord from the outlet** before cleaning, performing maintenance, or moving this heater. Failure to do so could result in **electric shock, fire, or personal injury.**

### **Electrical and Moving Parts:**

- The fan motor is lubricated at the factory and will not require lubrication.
- Electrical components are integrated in the heater and are not serviceable by the consumer.

### **Storage:**

- Store heater in a clean dry place when not in use.

## Cleaning



**ALWAYS** turn the heater **OFF** and **unplug the power cord from the outlet** before cleaning, performing maintenance, or moving this heater. Failure to do so could result in **electric shock, fire, or personal injury.**



**NEVER** immerse in water or spray with water. Doing so could result in electric shock, fire, or personal injury.

### **Metal:**

- Buff using a soft cloth, slightly dampened with a citrus oil-based product.
- **DO NOT** use brass polish or household cleaners as these products will damage the metal trim.

### **Control Panel:**

- **NEVER** spray cleaner directly onto the control panel. Spray a small amount onto a cloth, then wipe gently.
- **NEVER** use abrasive cleansers, liquid sprays, or any cleaner that could scratch the surface.

### **Vents:**

- Use a vacuum or duster to remove dust and dirt from the heater and vent areas.
- Clean the exterior of the heater with a slightly damp cloth or duster.

### **Wood:**

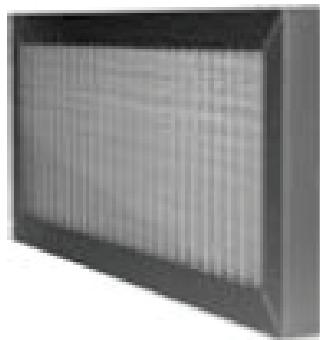
- **NEVER** use abrasive cleansers, liquid sprays, or any cleaner that could scratch the surface.
- Clean the exterior of the heater with a slightly damp cloth or duster.

## Filter Maintenance



**ALWAYS** turn the heater **OFF** and **unplug the power cord from the outlet** before changing the filter. Failure to do so could result in **electric shock, fire, or personal injury**.

Your Infrared Heater is equipped with an easy to clean, washable static filter. Regular cleaning and maintenance of your filter will ensure a lifetime of trouble-free use.



1. Turn off heater and unplug power cord from wall.
2. Locate filter at rear of heater.
3. Lift filter out of filter bracket.
4. Rinse filter by spraying warm tap water through rear side of filter (opposite of air intake direction) until filter is clear of dust and debris.
5. If filter is extremely dirty or clogged with grease, soak filter in mild solution of dish soap and water.
6. Brush with soft brush and repeat rinsing process.
7. Shake filter to remove excess water and lay on clean cloth or paper towel to dry.



**DO NOT use heater to dry wet filter!** Doing so could result in **electric shock, personal injury, or electrical damage to property**.

8. Replace filter in heater **ONLY** after it is **completely dry**.

### **NOTICE**

Never operate heater without filter in place. Without the filter in place, dust can accumulate on the infrared heating elements causing damage. It is a good policy to purchase an extra filter so that you can swap a previously cleaned and dried filter whenever the filter needs cleaning. Check with customer service for availability.

## LIMITED WARRANTY

This warrants to the original purchaser that this product is free from defects in material and workmanship as of the date of purchase and that it will, under normal use and proper care, remain so for one year from the date of purchase. Missing or initially defective parts will be replaced free of charge during the period of this limited warranty. The original dated sales receipt is required for all warranty claims. This warranty does not cover damage which has occurred during transport from the point of purchase to the consumer's home. This warranty does not cover glass, light bulbs, remote controls, or batteries.

**This product is for residential use only.** Any and all commercial use of this product voids all warranties, and frees the manufacturer from all liability. Read and understand all assembly and operating instructions, and all safety information and warnings, before use. The following will void this warranty: Damage caused from tampering with, modifying, or altering the heater insert in any manner; Damage due to incorrect assembly, improper care, misuse, or abuse; Damage from being used with the wrong power source; Water damage; Damage caused from this insert being used outdoors; Damage caused from this insert being used for excessive periods of time; Damage caused by the insert being used in a commercial application; Damage from use as a primary heat source; Other misuse or abuse not specifically listed herein. **This product is not intended to be used as a primary heat source.**

Vendor Development Group, Inc.(hereafter, VDG), its directors, officers, or agents, will not be liable to the purchaser or any third party, whether in contract, in tort, or on any other basis, for any indirect, special, punitive, exemplary, consequential, or incidental loss, cost, or damage arising out of or in connection with the sale, maintenance, use, or inability to use this product, even if VDG, or its directors, officers, or agents have been advised of the possibility of such losses, costs or damages, or if such losses, costs, or damages are foreseeable. In no event will VDG, or its officers, directors, or agents be liable for any direct losses, costs, or damages that exceed the purchase price of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to the purchaser. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Thank you for purchasing this product! If you have questions about the assembly or operation of this product, are missing parts, or have defective parts, please e-mail us at

**customerservice@vdgus.com**

Or, call us toll-free (M-F 8:30 AM to 4:30 PM Central Standard Time) at

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